

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/002702

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 C07C 335/42**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC C07C, A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and Applications for Inventions since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CAS on line

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/16318 A1 (PACIFIC CORPERATION) 28 Feb. 2002 See the whole document	1-30, 33-35
A	Jeewoo Lee et al., Thiourea analogues of resiniferatoxin as ligands for the vanilloid receptor, Bioorganic & Medicinal Chemistry Letter 5(13), pp. 1331-1334 (1995) See the whole document	1-30, 33-35
A	US 6057451 (BOEHRINGER INGELHEIM INC.) 2 May 2000 See the whole document	1-30, 33-35
A	US 4727064 (THE UNITED STATE OF AMERICA) 23 Feb. 1988 See the whole document  -----End of documents-----	1-30, 33-35

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

05 FEBRUARY 2005 (05.02.2005)

Date of mailing of the international search report

**07 FEBRUARY 2005 (07.02.2005)**

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

KIM, YONG

Telephone No. 82-42-481-8148



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**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 31, 32  
because they relate to subject matter not required to be searched by this Authority, namely:  
The subject-matter of claims 31 and 32 do not require an international preliminary examination with respect to industrial applicability as it is a method of treating a mammal including man suffering from the pathological stimulation of VR1 receptors such as pain, migraine or urinary bladder hypersensitiveness etc.
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any addition fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 02/16318 A1	2002. 2. 28.	US 2003203944 AA EP 1311477 A1	2003. 10. 30. 2003. 05. 21.
US 6057451	2000. 5. 21.	JP 2000202702 T2 EP 0871619 B1 DE 69624728 T2	2000. 03. 07. 1998. 10. 21. 2003. 07. 10.
US 4727064	1988. 2. 23	None	